

**CLAIMS:**

1-16. (Canceled)

17. (Currently amended) Neurosurgical apparatus comprising:

a guide tube for insertion into the brain of a patient towards a desired target, the guide tube having distal and proximate ends and a head disposed at the proximate end of the guide tube having an opening ~~for attachment to the skull of the patient; and~~

a neurosurgical catheter comprising a single fine tube arranged for insertion into the brain parenchyma of the patient with an external diameter of not more than 1.0 mm, a hub, and a stop surface operatively connecting the single fine tube and the hub;

wherein the catheter is insertable into the guide tube through the opening;  
and

the stop surface of the catheter abuts the head of the guide tube as the fine tube is passed through the opening, the stop surface thereby allowing the distal end of the single fine tube to be accurately located at the desired target via the tube, the catheter being arranged according to claim 1.

18-28. (Canceled)